CHAPTER 4

POINT AND NONPOINT SOURCE CHARACTERIZATION OF THE UPPER CLINCH RIVER WATERSHED

4.1. BACKGROUND. This chapter is organized by HUC-12 subwatershed, and the description of each subwatershed is divided into four parts:

i. General description of the subwatershed
ii. Description of point source contributions
ii.a. Description of facilities discharging to water bodies listed on the 2004 303(d) list
iii. Description of nonpoint source contributions

The Tennessee portion of the Upper Clinch River Watershed (HUC 06010205) has been delineated into five HUC 10 (10-digit) subwatersheds, each of which is composed of one or more HUC-12 subwatersheds.

Information for this chapter was obtained from databases maintained by the Division of Water Pollution Control or provided in the WCS (Watershed Characterization System) data set. The WCS used was version 2.0 (developed by Tetra Tech, Inc for EPA Region 4) released in 2003.

WCS integrates with ArcView® v3.x and Spatial Analyst® v1.1 to analyze user-delineated (sub)watersheds based on hydrologically connected water bodies. Reports are generated by integrating WCS with Microsoft® Word. Land Use/Land Cover information from 1992 MRLC (Multi-Resolution Land Cover) data are calculated based on the proportion of county-based land use/land cover in user-delineated (sub)watersheds. Nonpoint source data in WCS are based on agricultural census data collected 1992–1998; nonpoint source data were reviewed by Tennessee NRCS staff.

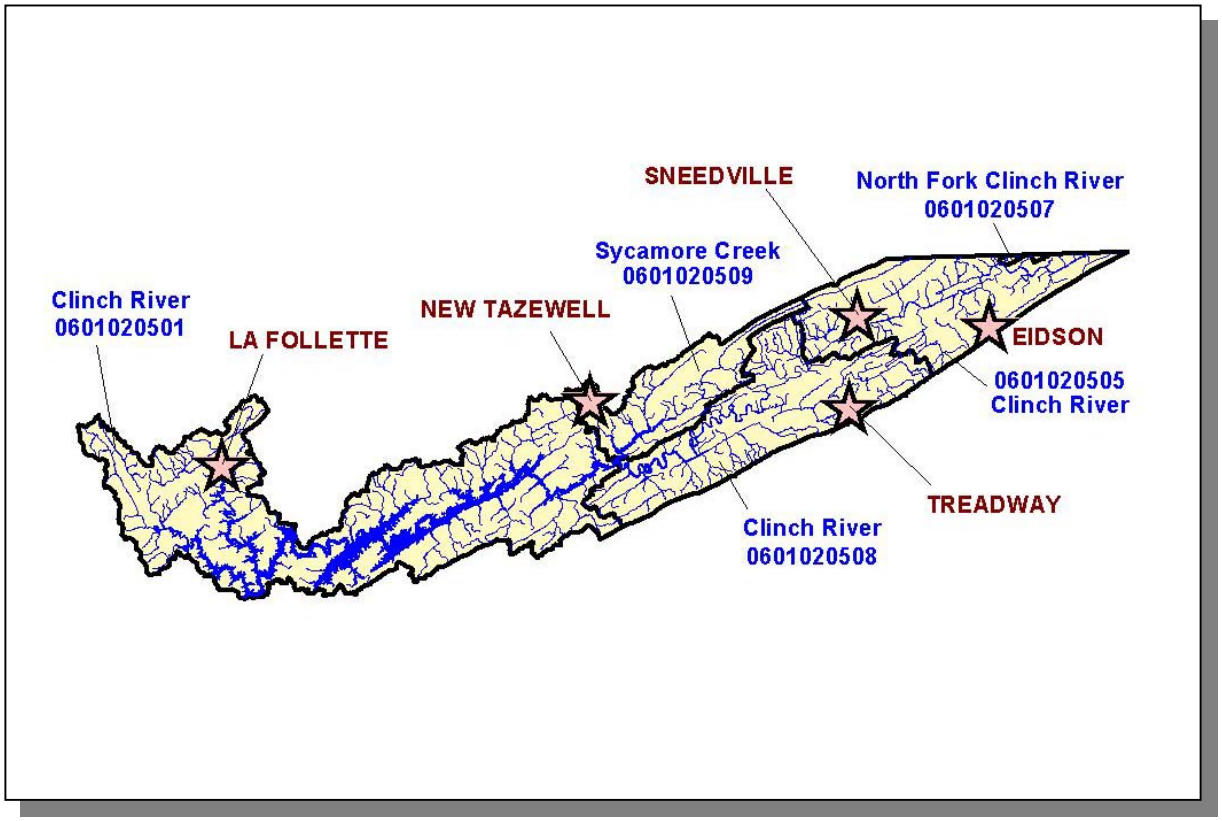

Figure 4-1. The Tennessee Portion of the Upper Clinch River Watershed is Composed of Five USGS-Delineated Subwatersheds (10-Digit Subwatersheds). *Locations of Eidson, La Follette, New Tazewell, Sneedville, and Treadway are shown for reference.*

4.2. CHARACTERIZATION OF HUC-10 SUBWATERSHEDS. The Watershed Characterization System (WCS) software and data sets provided by EPA Region IV were used to characterize each subwatershed in the Tennessee portion of the Upper Clinch River Watershed.

HUC-10	HUC-12
0601020501	060102050101 (Norris Lake)
	060102050102 (Norris Lake)
	060102050103 (Norris Lake)
	060102050104 (Norris Lake)
	060102050105 (Big Creek)
	060102050106 (Cove Creek)
0601020505	060102050502 (Clinch River)
	060102050503 (War Creek)
	060102050504 (Blackwater Creek)
	060102050505 (Clinch River)
	060102050506 (Richardson Creek)
	060102050507 (Panther Creek)
0601020507	060102050702 (North Fork Clinch River)
0601020508	060102050801 (Clinch River)
	060102050802 (Big War Creek)
	060102050803 (Indian Creek)
	060102050804 (Clinch River)
0601020509	060102050901 (Big Sycamore Creek)
	060102050902 (Little Sycamore Creek)
	060102050903 (Sycamore Creek)

Table 4-1. HUC-12 Drainage Areas are Nested Within HUC-10 Drainages. *NRCS worked with USGS to delineate the HUC-10 and HUC-12 drainage boundaries.*